

34HY SERIES 1.8°

Key Features

- Low Noise
- Low Inertia
- High Acceleration



General Specifications

8-Leadwire Motors

Model Number	Types of Connection	Resistance per Phase	Inductance per Phase	Rated Current	Holding Torque		Detent Torque		Rotor Inertia	
		ohm	mH	A	mN.m	oz-in	mN.m	oz-in	g.cm ²	oz-in ²
34HY0809	Bi-polar Parallel	2.3	18	1.8	2300	326	120	16.99	560	3.08
	Bi-polar Series	9.2	72	0.9	2300	326	120	16.99	560	3.08
	Unipolar	4.6	18	1.3	1800	255	120	16.99	560	3.08
34HY0810	Bi-polar Parallel	0.6	3.6	4.2	2300	326	120	16.99	560	3.08
	Bi-polar Series	2.4	14.4	2.1	2300	326	120	16.99	560	3.08
	Unipolar	1.2	3.6	3.0	1800	255	120	16.99	560	3.08
34HY1801-10	Bi-polar Parallel	0.3	2.4	5.6	4000	566	210	29.74	1200	6.60
	Bi-polar Series	1.2	9.6	2.8	4000	566	210	29.74	1200	6.60
	Unipolar	0.6	2.4	4	3100	439	210	29.74	1200	6.60
34HY1803	Bi-polar Parallel	0.8	6.7	3.9	4600	651	210	29.74	1200	6.60
	Bi-polar Series	3.2	26.8	1.9	4600	651	210	29.74	1200	6.60
	Unipolar	1.6	6.7	2.8	3500	496	210	29.74	1200	6.60
34HY2801	Bi-polar Parallel	0.47	4.0	8.4	7800	1104	180	25.49	2100	11.55
	Bi-polar Series	1.88	16	4.2	7800	1104	180	25.49	2100	11.55
	Unipolar	0.94	4.0	6	6000	850	180	25.49	2100	11.55
34HY2802	Bi-polar Parallel	0.19	1.6	9.4	5600	793	180	25.49	2100	11.55
	Bi-polar Series	0.76	6.0	4.7	5600	793	180	25.49	2100	11.55
	Unipolar	0.38	1.5	6.7	4300	609	180	25.49	2100	11.55

 0.39in.
(□10mm)

 1.10in.
(□28mm)

 1.38in.
(□35mm)

 1.53in.
(□39mm)

 1.65in.
(□42mm)

 2.22in.
(□56.4mm)

 Ø2.25in.
(Ø57.2mm)

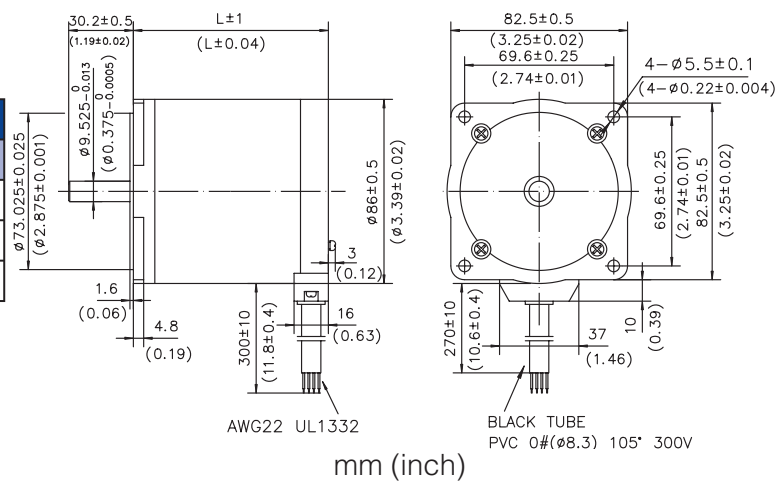
 2.36in.
(□60mm)

 3.35in.
(□85mm)

 Ø3.39in.
(Ø86mm)

Mechanical Dimension

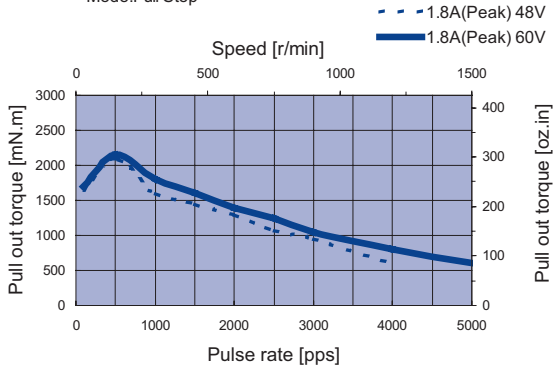
Model Number	L	Mass
	mm (in.)	kg (lb.)
34HY0**	63 (2.48)	1.5 (3.31)
34HY1**	91 (3.58)	2.6 (5.73)
34HY2**	130 (5.12)	3.6 (7.94)



Dynamic Torque Curves

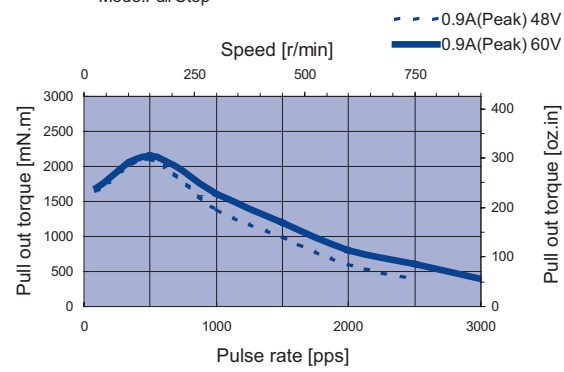
34HY0809 Bi-polar Parallel

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



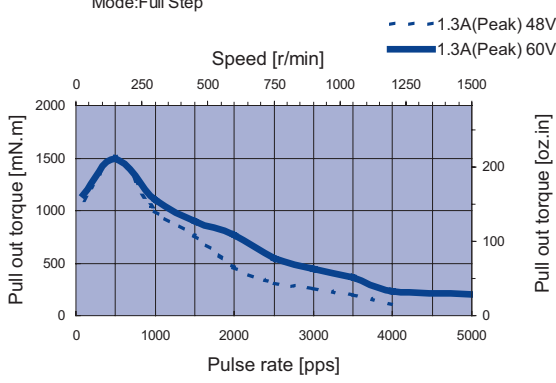
34HY0809 Bi-polar series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



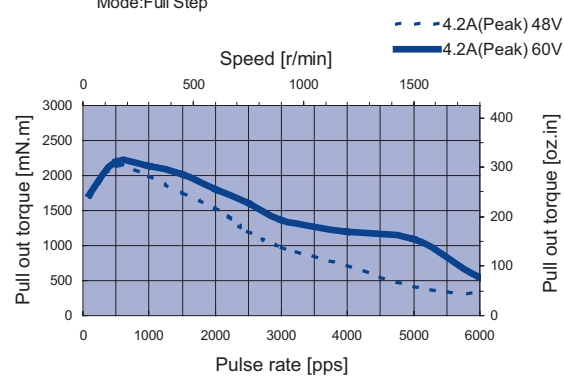
34HY0809 Uni-polar

Conditions: Uni-polar Constant Current Driver
IC: AMA MSU8080M
Mode: Full Step



34HY0810 Bi-polar Parallel

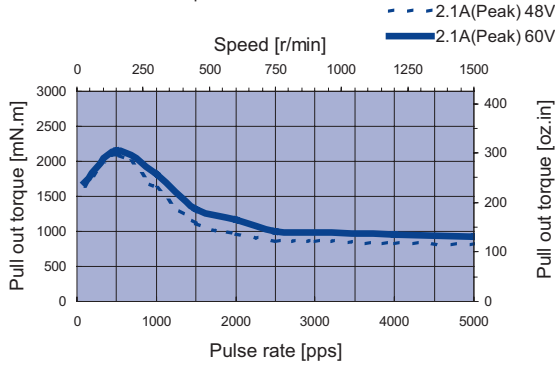
Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



Dynamic Torque Curves

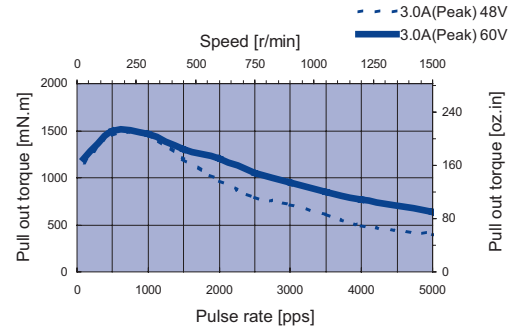
34HY0810 Bi-polar series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



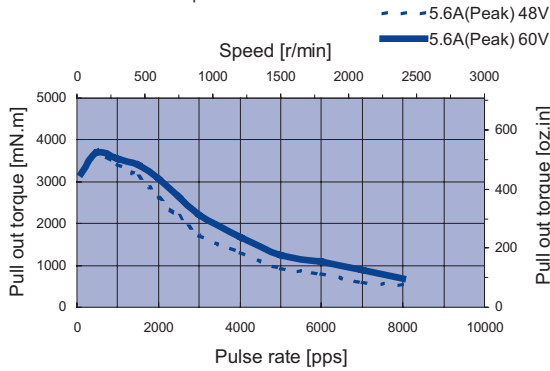
34HY0810 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



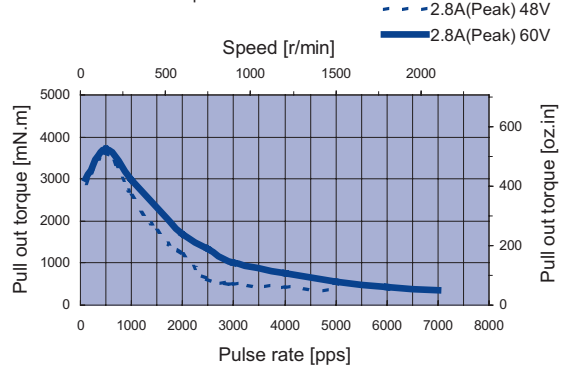
34HY1801-10 Bi-polar Parallel

Conditions: Bi-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



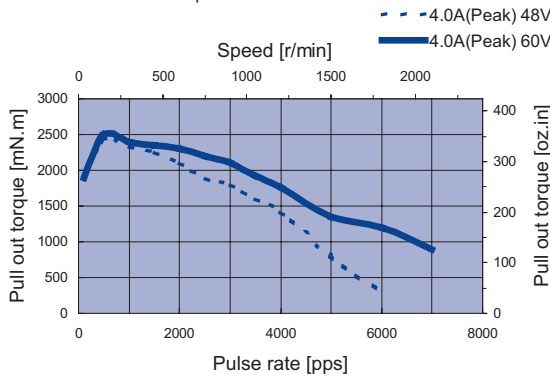
34HY1801-10 Bi-polar Series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



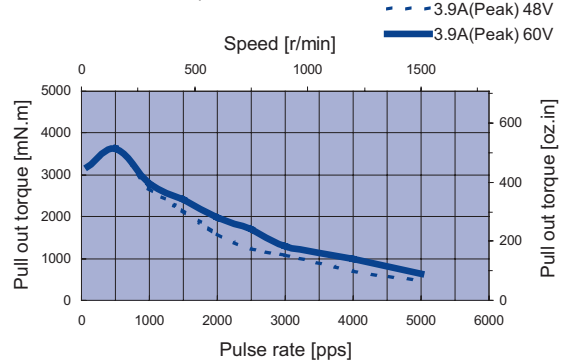
34HY1801-10 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



34HY1803 Bi-polar Parallel

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



0.39in.
(10mm)

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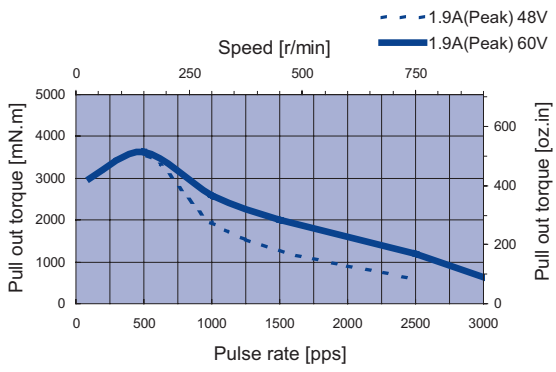
3.35in.
(85mm)

Ø3.39in.
(Ø86mm)

Dynamic Torque Curves

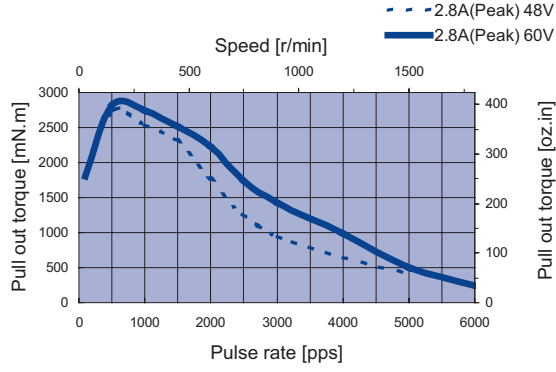
34HY1803 Bi-polar Series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



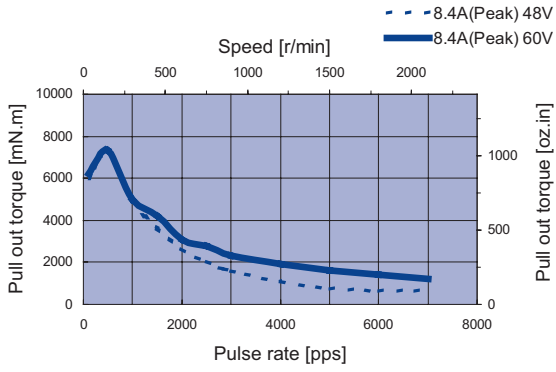
34HY1803 Uni-polar

Conditions: Uni-polar Constant Current Driver
IC: AMA MSU8080M
Mode: Full Step



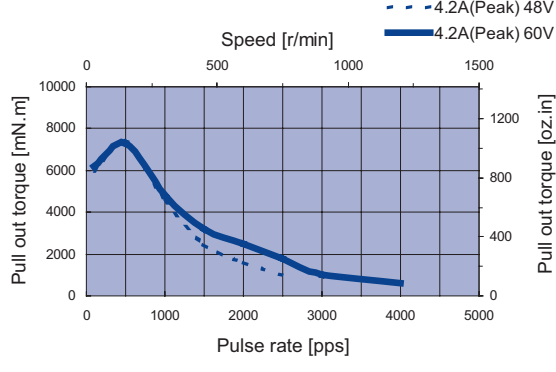
34HY2801 Bi-polar Parallel

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



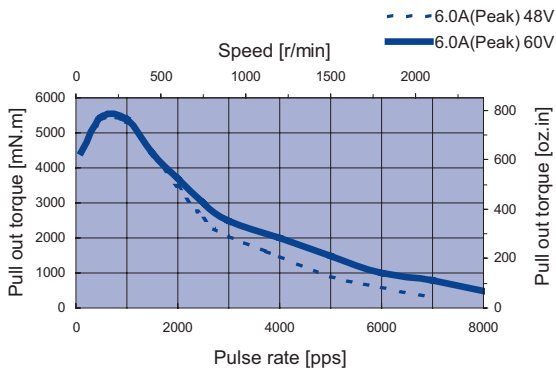
34HY2801 Bi-polar Series

Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



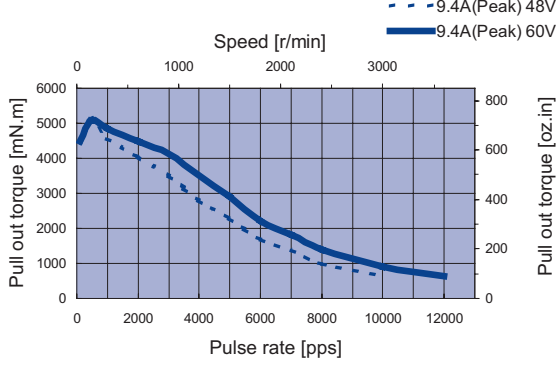
34HY2801 Uni-polar

Conditions: Uni-polar Constant Current Driver
IC: AMA MSU8080M
Mode: Full Step



34HY2802 Bi-polar Parallel

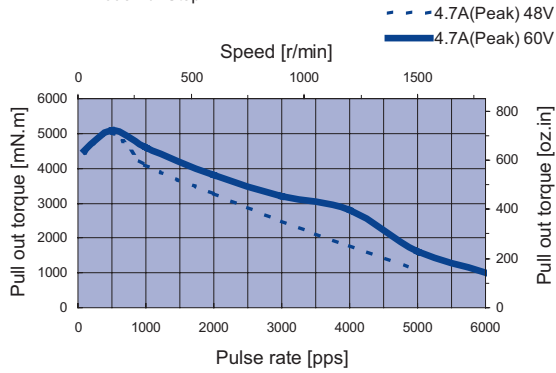
Conditions: Bi-polar Constant Current Driver
IC: AMA MS7080M
Mode: Full Step



Dynamic Torque Curves

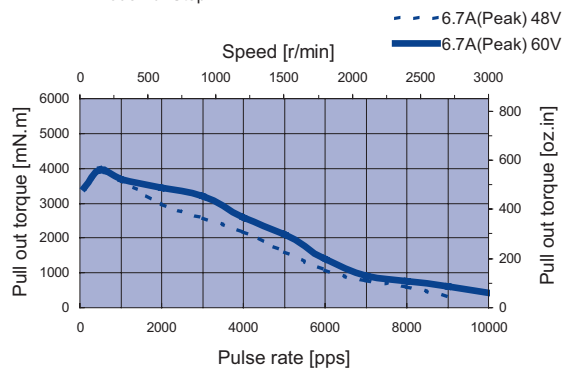
34HY2802 Bi-polar Series

Conditions: Bi-polar Constant Current Driver
 IC: AMA MS7080M
 Mode: Full Step



34HY2802 Uni-polar

Conditions: Uni-polar Constant Current Driver
 IC: AMA MSU8080M
 Mode: Full Step



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